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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,755	01/23/2004	Elias Jonsson	0119-039	7623
42015 POTOMAC PA	7590 08/17/2007 ATENT GROUP PLLC	EXAM	EXAMINER	
P. O. BOX 270		HA, D	HA, DAC V	
FREDERICKSBURG, VA 22404			ÀRT UNIT	PAPER NUMBER
			2611	
			MAIL DATE	DELIVERY MODE
			08/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1	·	Application No.	Applicant(s)				
Office Action Summary		10/763,755	JONSSON ET AL.				
		Examiner	Art Unit				
		Dac V. Ha	2611				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
	ORTENED STATUTORY PERIOD FOR REPLY	/ IS SET TO EXPIRE 3 MONT	H(S) OR THIRTY (30) DAVS				
WHIC - Exte after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING DATE in the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period varieto reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be vill apply and will expire SIX (6) MONTHS fr , cause the application to become ABANDO	ON. e timely filed  rom the mailing date of this communication.  DNED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>11 June 2007</u> .						
	This action is FINAL. 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-41</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· <u>·</u>	5) Claim(s) <u>1-9</u> is/are allowed.						
	Claim(s) <u>10,30-34,40 and 41</u> is/are rejected.		•				
	Claim(s) <u>11-29</u> , <u>35-39</u> is/are objected to. Claim(s) are subject to restriction and/o	r election requirement					
الساره	claim(s) are subject to restriction and/o	r election requirement.					
<b>Applicat</b>	ion Papers						
• —	The specification is objected to by the Examine						
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the						
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex		·				
Priority	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
	See the attached detailed Office action for a list	of the certified copies not rece	eved.				
Attachmer	nt(s) ce of References Cited (PTO-892)	4) 🔲 Interview Summ					
2) Notice	il Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:							

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#### **DETAILED ACTION**

## Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 10, 31-34, 40, 41 are rejected on the ground of nonstatutory double patenting over claims 1, 10 of U. S. Patent No. 7,154,966 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows: the claimed subject matter claimed in the claims 10, 31-34, 40, 41 requires knowledge of history estimation, which is

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essentially obtained from the average information in that of claims 1, 10 of Patent No. 7,154,966.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 10, 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Dorney et al. (US 6,789,225) (hereafter Dorney).

Regarding claim 10, Dorney discloses the claimed subject matter "determining a decision boundary for a respective channelization code using the received symbols and at least one decision boundary estimate determined for another channelization code" in Fig. 3, element 300; col. 1, lines 44-51; col. 3, lines 25-50; Fig. 4, col. 3, line 60 to col. 4, line 38; wherein when the received data is estimated utilizing the metric determined from previous symbols in element 300 of Fig. 3.

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Regarding claim 30, Dorney further discloses the claimed subject matter "wherein the soft bit value estimates are determined using received symbols and at least one decision boundary estimate determined for another channelization code" in Fig. 3, element 300; col. 1, lines 44-51; col. 3, lines 25-50; Fig. 4, col. 3, line 60 to col. 4, line 38.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dorney.

Regarding claim 40, see claim 10 above. Further, utilizing "computer program" for performing such claimed subject matter would have been easily realized by one skilled in the art since it would be much easier for implementation and updating.

Regarding claim 41, see claim 30 above.

#### Allowable Subject Matter

7. Claims 1-9 are allowed.

8. Claims 11-29, 35-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Han et al. (US 2004/0233976) discloses Apparatus And Method For Estimating A Decision Boundary In Symbol Units In A Mobile Communication System.

Rodriguez (US 7,076,000) discloses Soft-Decision Metric Generation For Higher Order Modulation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 4/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Payne can be reached on 571-272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-

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Dac V. Ha Primary Examiner Art Unit 2611